

COMPREHENSIVE STRATEGIES TO PROTECT DRINKING WATER FROM HARMFUL ALGAL BLOOMS

July 21

| 12:00PM CST

| From Intake to the Tap

| ~ 1.5 hours

Toxin-producing cyanobacteria blooms are a growing concern for water utilities that use surface water supplies across the country. To make informed decisions about how to limit exposure to cyanotoxins, water utilities need to understand (1) cyanotoxins occur; (2) their presence in a given water source, (3) management strategies to reduce cyanotoxins in source waters, and (4) treatments to prevent cyanotoxins from reaching customers.

Our first presentation by Ms. Tricia Kilgore will review Beaufort Jasper Water and Sewer Authority's experience with algae blooms, taste and odor, the development of an algae monitoring plan for two drinking water reservoirs, and algae bloom treatment in the reservoir and in the plants. Earlier detection of cyanobacteria blooms has allowed for better mitigation and prevention of taste and odor events and process upsets.

Our second presentation by Dr. Erik Rosenfeldt provides insight on which techniques are effective for addressing cyanotoxins present within intact cyanobacteria cells (intracellular), and which techniques are effective for removing cyanotoxins that are dissolved in the water (extracellular). CyanoTOX ©, an oxidation treatment calculator developed for AWWA, will also be presented.



Ms. Kilgore, PE, is Director of Technology & Innovation at Beaufort-Jasper Water & Sewer Authority in South Carolina. She has worked in the water and wastewater field for 20 years, starting as a state regulator then an engineering consultant before joining the utility side in 2008. At BJWSA, Tricia has worked as Capital Projects Manager and Director of Treatment Operations. She has engineering degrees from Virginia Tech and Loughborough University in the UK.



Dr. Rosenfeldt received his M.S. and Ph.D. from Duke University in 2003 and 2007. During his time at the Duke, he researched advanced oxidation of emerging contaminants. After graduation, he went on to work as an Assistant Professor of Civil and Environmental Engineering at the University of Massachusetts, Amherst. Currently, he is the Director of Drinking Water Process Technologies at Hazen and Sawyer.

The USACE Invasive Species Leadership Team in collaboration with the Aquatic Plant Management Society, North American Lake Management Society, and the American Water Works Association will summarize the latest research and technical information on management strategies to encourage better integration and facilitation in the protection of drinking water.



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